INDEX.

PAGE	PAGE
ABNORMALITIES in postcava of	Australian Fauna 25
cat . , 185	— Fishes
Absaroka Range, Volcanoes of . 156	Autolytus, Life history of 165 Axolotl, Remarkable 551
Actinaria, Synopsis of 747	Axolotl, Remarkable 551
African masks and secret societies 973	
Agriculture, Practical	BAKER, FC. A new museum
Aleurodidæ 825	tablet 275
Algæ, Alternation of generations . 678	Banks, N. Synopsis of scorpions,
and fungus in lichens 245	solpugids, and Pedipalpi 421
Allen, J. A. Mammals of New	Batrachus, Lateral line of 235
York 316	Bdellostoma, Caudal heart 666
North American jumping mice 199	Beaufort, Marine biology at 339
Alternation of generations 165	Beecher, C. E. Zittell's text-book
— in algæ 678	of paleontology 680
Amblystoma 552	Bees of cactus 487
Amia, Intestine of 717	Bigelow, R. P. Study of heredity
— in algae	among the deaf 146
— Sporulation in 332	Biology, Advance of, in 1897 489
Andrews, E. A. Merogeny 982	Birds, Arctic 417
— Davenport's Zoölogy 981	— of California 440
— Physics of cell life 54	— Dental ridges of 677
— Davenport's Zoölogy 981 — Physics of cell life 54 — Protoplasm of the salmon	of paleontology
egg 322	— of France 602
Protoplasmic streamings 434	Blattid, New
— Sporulation in Amœba 332	Blind vertebrates 524
Structure in the mammalian	Bones, Arrangement of collections 9
egg	Botanical Notes, 75, 241, 449, 608, 680, 767, 828, 907, 989
— The tree-trog 322	707, 828, 907, 989
Animal and plant colors 759	Botany, Briefer courses in 905
Annelids, Alternate generations in 165	— Experimental 605
Sense organs of 71, 328	— Text-book of 828
— Sense organs of 71, 328 Anthropological Notes 53, 145, 311, Ants of Texas	Carronwa Diede of
433, 977	CALIFORNIA, Birds of 440 Canada, Phenological observations
Anus Proding and development	in 445
Anura, Breeding and development of	Canala Intracellular in canalian
Appointments 82 att 520 612 682	Canals, Intracellular, in ganglion cells
	Caparoid crahe of North America 121
Aquaria, Fresh-water 203	Cannon, W. A. Gall of the Mon-
Arachnid (Kœnenia) in Texas 837	
Arctic deep-sea fauna 442	terey pine 801 Capillaries and sinusoids 527
marine animals	Caprifoliaceæ and insects 37
Arizona, Faunal zones in 284	Castle, W. E. Studies on Hiru-
Arrowheads 431	dinea 600
Ascidians of Bremer Expedition . 765	Cat duodenal glands 222
- Nervous and glandular tissue	dinea 600 Cat, duodenal glands 233 — Postcaval abnormalities in . 185
in 766	Catometopous crabs 583
Atta	Cell, Wilson's Work on 761
Atta	— Division
	Division

PAGE	PAG
Cell, in Sporangia and Asci 448	Embryology, Mammalian 91
Tife Division f	Enteman, M. M. Variations in
Cephalopods, Fossil, in the Timan 830	Danhnia 870
- Russian carboniferous 831	Daphnia
Cestode nomenclature 533	Excretion in Mollusca
Cevion Flora of	Excretion in Mollusca
Ceylon, Flora of	Eves of Crustacea
Circulation in Anodonta	of fishes
Clements, F. E. Minnesota plant	— of Polyphemide
life 238	- or rotypheniae /
life	FERMENTATION 670
dida Ser	Fishes of Australia
didæ 825 — The cactus bees	Compensatory movements in 660
Lower and middle Sonorian	— Deep-sea 663, 910
zones 284	— Fossil 612, 876
Collins, F. S. Alternation of gen-	of Hawaii
erations in algae 678	of Mexico
erations in algæ 678 Colors of animals and plants 759	- of North America 764
Crawley, H. A flagellate heliozoon 255	Notes on
Crayfish, Psychophysiology of 821	- Psychology of 27
Cretaceous plants 608	- of Puerto Rico 150
Cretaceous plants 608 Cutting ants, Myrmicophila with . 851	— tide-pool 233
Cyclometopa of North America . 131	of Woods Holl 523
Cyclometopa of North America . 131	Flagellata, Colonial 331
	Formaldehyde 763
DAPHNIA, Variation in 879	France, Birds of 602
Davenport, C. B. Advance of	Fauna of
biology in 1897 489	Frogs, Distomum in 811
— Biology of crystals 978 — Variation in Pecten 863	— Fossil
- Variation in Pecten 863	
- Variation of Statoblasts of	GALLS on pine 801
Pectinatella 989	Ganglion cells, Intracellular canals
Pectinatella 989 Deaf, Marriages of 146	Gardening, Dictionary of 905
Deaths . 84, 224, 522, D12, D84, 828	Gardening, Dictionary of 905
Didelphis	Gatschet, A. S. Payne's New World 231
Dinocerata, Limbs of 89	Genital organs of Zaitha 119
Dinosaurs and birds	Geological phenomena, Interpreta-
Distomum (n. sp.) in American	tion of 495
frogs 811	Grafted Tissue, Regeneration in . 155
Distribution of animals in Aus-	Gratting Hydra 237
tralia	Medusæ
Dog, Diseases of 598	Grafting Hydra
Duncker, G. Variation in Palæ-	Giapsoid Claus
monetes 621 Duodenal glands in cat 233	Growth and food supply in starfish
Duodenai giands in cat 233	Growth, Effects of heat on 949
Fan honor	HAGFISH, Caudal heart of 666
Faster Island	Form of
Fastman C P Karnineku's genus	Hargitt, C. W. Natural history
EAR bones	of Pennaria
Eaton, E. H. Zoölogy of the Horn	of Pennaria
	Heart, Caudal, of hagfish 666
Expedition	Heat, Accelerating effect of, on
Eciton	growth
Eciton	growth
Editorial comment	Heliotropism of Cypridopsis 603
Egg of mammals 320	Heliozoön, Flagellate 255
Eigenmann, C. H., and Shafer, G.	Hemiptera, Genital organs of 119
D. Cones in the retina of fishes 109	Henshaw, S. A recent book on
Fibe Plankton of	insects

PAGE	PAGE
Henshaw, S. New Jersey insects . 673	Jordan, D. S. Eggs of hagfish 437
Heredity among deaf	- Garman's deep-sea fishes 663
Heterocotylea, Synopsis of 645	— Garman's deep-sea fishes 663 — Greeley's tide-pool fishes 233
Heterocotylea, Synopsis of	— Labroid fishes of Hawaii 666
Havanad lag Sagments of	Lungless salamanders 437
Hilton W A Intesting of Amic	Notes on fishes, 68, 69, 70, 897
Hilton, W. A. Intestine of Amia	Westerness of the Philippiness of
calva	- Vertebrates of the Philippines 436
Hirudinea	- Waite's fishes of the Thetis
Hoffman, R. Seton-Inompson's	expedition 438
trail of the sandhill stag 319	 Whitefish of Lake Chapala . 523 Woodward on Scapanorhyn-
Lanier's "Bob" 320	Woodward on Scapanorhyn-
— Lang's our native birds 321	chus and Mitsukurina 234
trail of the sandnii stag	Evermann and Marsh on
Hopi Indians 53	fishes from Puerto Rico . 150
Horn Expedition, Zoölogy of 25	Jordan, D. S., and Snyder. Fishes
Horticulture, Cyclopedia of, 335, 767	of Mexico 667
illuncka, il. illiangement of cor-	
lections of bones 9	Kochi, C. Origin of middle ocellus
Hyatt, A. V. Woodroffe's Man-	of insects 641
agement and diseases of the dog 598	Kœnenia 837
Hydra grafts 237	of insects
Hydroid, New 237	poda
23,02010, 21011	- Effect of staleness of sex-cells
INDIAN knives	
Industria, Breeding of	- Growth in the Rhizonod shell 220
- Reaction of to chemicals 250	— Plankton of the Elbe 761
of Switzerland	— Protozoan studies 824
— Reaction of, to chemicals	— Swiss Infusoria
Insects and Consifoliacean	- Swiss Infusoria 329
Insects and Caprifoliaceæ	LAKE URMI 315
Ocelli of	LAKE URMI
Instinct or reason 817	Lateral line of toodfob
Intestine Histology of	Leech, A new
Intestine, Histology of 527	Leech, A new
Intestine of Amia	Lepidosiren, Development of 670
Irish H C Ismas's practical ag	Leucosoid crabs 503
Intestine of Amia	Lichons Engine and also in
— Phenological observations in	Lichens, Fungus and alga in 245
Canada Coservations in	Lillie, F. R. Regeneration and
Canada	regulation in Planarians 173
Isopoda, Synopsis of 207, 295	Linnæus, Fishes of 69
Lawrence D. T. Nomborm's later	Lithurgus
JACKSON, R. T. Newberry's later	Lovell, J. H. Insects and Capri-
extinct floras	Tonaceae Double
Jagger, 1. A., Jr. Experimental	Loxosoma, Double 891
geology	Lycodes 439
 Geology of Yellowstone Park 770 Maryland Ceological Survey 773 	V G 1
- Maryland Ceological Survey 773	MAIOID Crabs 503
- Maryland Weather Service 772	Mammalian egg 320
— Tertiary volcanoes of the Ab-	Mammalian embryology 913
saroka Range 156 Jar for laboratories	Mammalian embryology 913 Mammalia, Origin of 943 Mammals of New York 316
Jar for laboratories	Mammals of New York 316
Jennings, H. S. Reaction of Infu-	- of Prince Edward Island 483
soria to chemicals 259	Man, Antiquity of
Johnston, J. B. A sealing stone	— Races of 521
jar for zoölogical laboratories . 971	Variations in crania 737
Jordan, D. S. Blatchley's glean-	Mark, E. L. Godelewski's multi-
ings from nature 149	plication of nuclei 671
Caudal heart of hagfish 666	Maryland Geological Survey 773
ings from nature 149 —— Caudal heart of hagfish 666 —— Clapp on the lateral line of	- Weather Service
toadfish 234	Maryland Geological Survey

PAGE	PAGE
McClure, Postcaval abnormalities	OCCIPITAL condyles 943
	Ocelli of hexapods 641 Odors, Classification of 241
in cat	Odors, Classification of 241
of Trimerotropis 471	Oöcapt
Mead, A. D. Growth and food	Oöcapt
supply in starfish 17	Ortmann, A. E. Arctic deep-sea
Meek, S. E. Jordan and Ever-	fauna
mann's fishes 764	fauna
Melophagus ovinus 327	- Distribution of Opilionidæ . 597
Mensch, P. C. Life history of	- Zoögeography of the Pacific . 594
Autolytus and alternation of gen-	Osborn, H. F. Angulation of
eration in annelids 165	limbs of quadrupeds in adapta-
Metcalf, M. M. Willey on Enter-	tion to weight 89
oppensta	- Evidence for a common dino-
opneusta	saur-avian stem in the Per-
Mice. North American jumping 100	
Mice, North American jumping . 199 Microbdella 524	— Glacial pot hole near Cats-
Micro-organisms and fermentation 679	kill, N. Y
Microthelyphonida 837	- Origin of the mammalia 943
Minnesota plant life 238	- Vertebræ of reptiles 1
Minot, C. S. Study of mammalian	Osborn, H. L. Remarkable axolotl
embryology 913	from North Dakota 551
Mollusca, Circulation in 154	Ossicula auditus
Mollusca, Circulation in 154 Excretion in	Otocyst of heteropods 526
Monascidians of the Bremer Expe-	Ovogenesis in tunicates 441
dition	0.1080110110110110110110110111111111111
dition	PACIFIC, Zoögeography of 594
Montgomery, T. H. Genital organs	Paleontology, Text-book of 681
of Zaitha	Palpigradi
of Zaitha	Palpigradi 837 Parker, G. H. Amitotic followed
Muscle, Nuclei of 671	by mitotic division 236
Musical bow 429	- Ampullæ of Tunicata 71
Myrmicophaga	— A new hydroid 237
Myrmicophaga 575 Myrmicophile, New 851	- Animal and plant colors 759
Myxine, Eggs of 437	Artificial production of rhyth-
	mic muscle contractions . 150
NECTURUS, Position of sacrum in 635	Barker's nervous system 61
Needham, J. G. Fruiting of Iris . 361	— Capillaries and sinusoids 527
Nematode in panther 72	Compensatory movements in
Nepheline-svenites 453	fahan 66a
Nepheline-syenites	- Development of Lepidosiren 670
Neurone theory 61, 64, 457	— Ear bones
Neurone theory 61, 64, 457 New England, Local floras of 240	— Development of Lepidosiren 670 — Ear bones
New Jersey, Insects of 674	- Formaldehyde 763
New Mexico, Faunal zones in 284	—— Graiting and regeneration in
News 82 244 520 612 682 822	Hydromedusæ 155
New York, Mammals of 316 Niagara, Age of	Hydromedusæ 155 Heart of Anodonta 154
Niagara, Age of	— Hydra grafts 237
Nickerson, W. S. Distomum in American frogs 811 — Double Loxosomæ 891	- Intracellular canals in gan-
American frogs 811	glion cells 762
— Double Loxosomæ 801	- Korschelt and Heider's em-
Norman, W. W. San Marcos sal-	bryology 324
amander, Typhlomolge 179	— Lake Urmi
amander, Typhlomolge 179 North Dakota, Axolotl from 551	- Locomotion of Solenomya . 525
Norton, J. B. S. Classification of	- Mating instinct in moths 674
odors	- Otocyst of heteropods 526
Nuclear phenomena in Ustila-	—— Pupa grafting in moths
gineæ 448	Regeneration in grafted tissue
Nuclei, Multiplication of, in muscle 671	Regeneration in grafted tissue 155 Regeneration in Reissner's
— of Ustilagineæ 448	fibre 316

Parker, G. H. Sense organs of	RABBIT, Variation in 639
Nereis	Races of man 521
 Skeleton of Vulpes macrotis . 985 Skeleton of the black bass . 984 	Rathbun, M. J. Cancroid crabs of
- Skeleton of the black bass . 984	North America 131
— Synopsis of North American	Synopsis of catometopous or
Actinaria 747	grapsoid crabs 583
— The neurone theory in the	— Synopsis of oxystomatous
light of recent discoveries . 457	and oxyrhynchous crabs . 503
Vertebrate anatomy 762	Reason or instinct 817
- Villi of intestine 527	Regeneration in grafted tissue 155
— "Wilson's Cell" 761	in Medusæ 155
Woods Holl Lectures for 1898 56	— in Planarians 173
Woods Holl Lectures for 1899 759	Rehn, J. A. G. Linnean genera
Peabody, C. African masks and	Myrmicophaga and Didelphis . 575
secret societies 973	Reissner's fibre
Pearl, R. Recent work on electro-	Reptiles, Vertebræ of
Peckham, G. W. and E. G. Instinct	Retina of dogfish 236
recknam, G. W. and E. G. Instinct	Reviews:
or reason 817 Pecten, Variation in	Acloque's Fauna de France 602, 902
Pectinella, Variation of statoblasts	Alexander's Darwin and Dar-
in	winism
Peirce, G. J. Relations of fungus	soria 328
and alga in lichens 245	Atherton's sense organs of
Pelomyxa	worms 71
Peneus	Atkinson's lessons in botany
Pelomyxa 535 Peneus	607, 905
ical anatomy and physiology 828	Bailey's cyclopedia of horticul-
— Coal measure plants 80	ture 335
	Balfour on the musical bow . 429
Fossil cycads 609	Ballowitz, polytomous nerve
- Fossil plants from Franz Jo-	fibres 63
seph Land 610	Bancroft on tunicates 71
— Matonia 81 — Medullosa 81	Barker's nervous system 61
— Medullosa 81	Barnes, Outlines of plant life. 905
Pennaria, Natural history of 387	Bauer's experimental petrogra-
Petrographical notes 161, 455	phy 160
Petrography of Essex Co., Mass 453	Belzung's botanical anatomy
— Experimental 160 Petromyzon, Nesting habits of 617	and physiology 828
Petromyzon, Nesting habits of 617	Berry on intestinal villi 527
Philippines, Vertebrates of 436	Bethe's intracellular canals of
Pig, Development of 913	ganglion cells 762
Pine, Galls on 801	Biological Bulletin 826
Planarians, Regeneration in 173	Blatchley's gleanings from na-
Plankton of the Elbe 761	ture
Porichthys, Lateral line of 235	Bütschli on microstructure of
Pot hole near Catskill, N. Y 33	crystals
Pratt, H. S. Synopsis of monoge-	Carlgren on electrotaxis 979 Clapp's lateral lines of the
netic trematodes 645	toodfob
Prince Edward Island, Mammals	toadfish
of 483	
Proboscidia, Limbs of 89	of high-school botany
Projapyx 849	Collett and Nansen's birds of
Protoplasmic streamings 434	the Norwegian Polar Expe-
Protoplasm, Structure of 322 Protozoan studies 824	dition 417
Psychology of fishes	Contributions from the U.S.
Puerto Rico, Fishes of 150	National Herbarium 74
Pupa grafting in moths 236	Cooke on Easter Island 430

INDEX.

eviews: PAGE	Reviews: PAGI
Cossmann's empirical tele-	Heidenhain's protoplasmic
ology 822	streamings 434
Coulter's plant studies 905	Hill's management and dis-
Cox's elementary physiology . 763	eases of the dog 598
Cragin's our insect friends and	His's protoplasm studies 322
foes 326	Hoche's neurone theory 64
Crampton's pupa grafting 236	Holmes, Antiquity of man in
Cuénot's excretion in Mollusca 151	California 145
Cyclopedia of American Hor-	Holzapfel's cephalopods of the
ticulture 767	Timan 830
Dana's wild flowers 988	Ilyin on otocysts of heteropods 526
Davenport's zoölogy 981	James's practical agriculture . 906
Dearborn's psycho-physiology	Jenkins's labroid fishes of Ha-
of the crayfish 821	waii 666
Delage on merogeny 982	Jensen's eggs of haghsh 437
Deniker's races of man 521	Jordan and Evermann's fishes 764
Drew, Locomotion of Soleno-	Jordan and Snyder on fishes
mva	of Mexico 667
Eigenmann on blind verte-	Jörgensen's micro-organisms
brates 524	and fermentation 679
Evermann and Marsh on fishes	Karpinsky on Edestidæ and
of Puerto Rico 151	
Fay's marriages of the deaf . 146	Helicoprion 579 Keeler's our native trees 988
Fischer's tree toad 322	Kennedy's beasts 314
Flemming on the mammalian	Kerr, Development of Lepido-
egg 320	siren 670
Frazer's life of Cope 819	King's irrigation and drainage 446
Frobenius on African masks	Kingsley on ear bones 526
and secret societies 973	- Vertebrate zoölogy 58
Fur-seal investigations 65	Kofoid on Platydorina 331
Garman's deep-sea fishes 663	Kölliker's reminiscences 232
Garrey's effects of ions on fla-	Korschelt and Heider's embry-
gellate Infusoria 259	ology 324
Geology of the Yellowstone	Langdon's sense organs of
National Park 770	Nereis 328
Godelewski on multiplication	Lange's our native birds 321
of nuclei in muscle 671	Lankester's treatise on zöol-
Gogorza's vertebrates of the	ogy 675
Philippines 436	Lanier's "Bob," our mocking-
Graf's hirudineen studies 600	bird 320
Greeley on tide-pool fishes . 233	L'Année Biologique for 1897 489
Greene on caudal heart of hag-	Loeb's artificial rhythmic
fishes 666	muscle contractions 150
- Lateral line of toadfish . 235	Loman's distribution of Opili-
Gunther's Lake Urmi 315	onidæ 597
Günther on fishes of Linné . 69	Loomis on California water-
Häcker's mitosis following	birds
amitosis	Lonnberg on solpugids 673
Hague's tertiary volcanoes of	Lönnberg's lungless salaman-
the Absaroka Range 156	ders 437
Hargitt's experimental studies	Lyon on compensatory move-
on Hydromedusæ 155	ments in fishes 669
Harper's cell-division in Spo-	MacDougall's nature and work
rangia and Asci 448	of plants 605
Nuclear phenomena in	Mackay's phenological investi-
Ustilagineæ 448	gations 445
Hartmeyer's monascidians of	Macmillan's Minnesota plant
the Bremer Expedition 765	life
Hedley's zoögeographic	Maryland geological survey . 773
scheme for the Mid-Pacific 504	— weather service

eviews:	PAGE	Reviews:	AGE
Mason on Indian knives Mayer's mating instinct in	431	Schorler, Plankton of the Elbe.	760
moths	674	Scott's Medullosa anglica	
McIntosh's resources of the sea		Seward's coal measure plants.	
Meunier's experimental geol-			81
ogy	772	Shufeldt skeleton of the black	
Metcalf on nervous and gland-		bass	984
ular tissue in ascidians	766	- osteology of Vulpes	
Miller's (W. S.) contributions		macrotis	985
from the anatomical labora-		Smith's New Jersey insects	673
tory of the University of	i	Smithsonian report for 1897 .	311
Wisconsin	762	Smitt on Lycodes	439
Miller's (G. S.) mammals of		Soulanes on measurements of	
New York	316	human skeleton	312
Miltz, Eyes of Polyphemidæ.	72	human skeleton Stöhr on duodenal glands	233
Minot on capillaries and sinu-		Temple primers	826
soics	527	Thierreich Sporozoa	899
Moore o Microbdella	524	Thompson's (H. B.) nerve cells	
Morgan's regeneration in		of the human cortex	65
grafted tissue	155	Thompson's (Seton) trail of	
Morris's man and his ancestor	593	the sandhili stag	319
Murbach's hydroids from		Towle, Heliotropism of Cypri-	
Woods Holl	237	dopsis	003
Nadiallac's unity of human		Trimen's flora of Ceylon	447
species	313	Tzwetaew's carboniferous	0
Nathorst's fossil plants from	6		831
Franz Joseph Land		Vernon's effect of staleness of	2-2
Neuville on formaldehyde		sex cells on development . !	023
Newbegin's color in nature .	759	Wagner's problem of innate ideas	822
Newberry's later extinct floras	70	Waite's fishes of the Thetis	022
of North America Nicholson's dictionary of	79	Expedition	478
	005	Ward's cretaceous plants	608
Parker's practical zoology .	426	— fossil cycads	
Payne's new world	221	Ward, H. B. Garman's deep-	009
Penard's growth in rhizopod	-3-	sea fishes	010
	329	Washington's rocks of Essex	
Penard's Rhizopoda of Lake	3-7	Co., Mass.	453
	330	Wieland's fossil cycads	600
Pittard on ancient crania from	33-	Willem's circulation in Ano-	-
the Rhone Valley	976	donta	154
Prantl's Lehrbuch	606	Willey's Enteropneusta	123
Pratt's anatomy of sheep tick	327	Wilson on prehistoric arrow-	-
Prowazek's protozoan studies	824	points, spear heads, and	
Quaintance's Aleurodidæ	825	knives	43
Rand's hydra grafts	237	Wilson's Cell	761
Report U.S. National Museum		Woods Holl lectures for 1898	56
for 1897	430	Woods Holl lectures for 1899	759
Rhumbler, Physics of cell life	54	Woodward on Scapanorhyn-	
Rothamsted experiments	611	chus and Mitsukurina	234
Roux's Swiss Infusoria Sargent on Reissner's fibre .	329	Zittel's text-book of paleon-	
Sargent on Reissner's fibre	316	tology	
Sauvageau on Cutleriacea and		Rhizopod, New	535
alternation of generations .	678		329
Schaudinn on Arctic deep-sea		Rhizopoda, Abyssal	330
fauna		Reproduction of	441
Scheel, Sporulation in Amœba		Richardson, H. Synopsis of N. A.	
Reproduction of Amœba	441	Isopoda	295
Scientific results of H. M. S.	0	hinds w. E. Camornia water-	
Thetis	825	birds	440

INDEX.

PAGE	PAGE
Ritter, W. E. Monascidians of the	Stale sex cells and development . 823
Bremer Expedition 765	Starfish, Growth and food supply
Nervous and glandular tissue	in 17
in ascidians 766	Statoblasts, variation in 959 Syenites
Ovogenesis in tunicates 441	Syenites 453
Roberts, H. F. Cell division in	Synopses of North American inver-
Sporangia and Asci 448	tebrates:
Robinson, B. L. Contributions	VII. Cancroid crabs 131
from U. S. National Herbarium 74	VIII Isonoda 207 205
Rocks of Essex Co., Mass 453	IX. Scorpions, solpugids, and Pedipalpi 421
Russell, F. Deniker's races of	Pedinalni 427
	X. Oxyrhynchous and oxysto-
Man	A. Oxymynchous and Oxysto-
Natural history of the musical bow 429	matous crabs 503 XI. Catometopous or grapsoid
DOW	A1. Catometopous or grapsoid
- Report of the U. S. National	crabs 583
Museum 430	XII. Monogenetic trematodes . 645
Report of commissioner of	XIII. Actinaria 747
education 432	
- Studies of cranial variation . 737	TABLET for museums 275
	Teleology, Empirical 822
SALAMANDER, San Marcos 179	Teleology, Empirical 822 Teratological Loxosoma 891
Salamanders, Lungless 437	Tertiary volcanoes of the Absaroka
Sampson, L. V. Unusual modes	Range
of breeding and development	Texan ants
	Texas. Singular arachnid in 827
among Anura	Tide-pool fishes
Sargent, F. L. King's irrigation	Tilefish, Reappearance of 68
and drainage	Toadfish, Lateral line of 235
McDaugel and Tramblu's an	Tree tood
McDougal and Trembly's ex-	Tree toad
perimental botany 605	Trelease, W. Driefer courses in
Scorpions, Synopsis of 421	botany 905
Sea, Resources of 601	- Clements and Cutler's manual 989
Sella turcica 434	— Cyclopedia of horticulture, 335, 767 — Dana's wild flowers 988
Sense cells of annelids 71	— Dana's wild flowers 988
Sense organs of Nereis 328	- Keeler's our native trees 988
Sheep tick 327	Nicholson's dictionary of
Sense organs of Nereis	gardening
results of Nansen's expedition . 417	- Trimen's flora of Ceylon
- Psychology of fishes 275	Trematodes in frogs
Simonds, F. W. Interpretation of	— Synopsis of 645
unusual events in geological	Trimerotropis, Variations in 471
records illustrated by recent ex-	True, R. H. Atkinson's "lessons
amples 495	in botany" 607
Sinusoids and capillaries	Prantl's Lehrbuch 606
Sinusoids and capillaries 527 Siredon	Tunicates Ovogenesis in
Slopeker I D Abnormality in	Tunicates, Ovogenesis in 441 — Vascular ampullæ of 71
circulation of rabbit 639	Turblemeles
Critical F. Desition of security in	Typhlomolge 179
Smith, F. Position of sacrum in	Transport of house and the
Necturus 635 Smith, J. P. Holzapfel fossil cephalopods 830	UNITY of human species 313
Smith, J. P. Holzapiel fossii	Ustilagineæ, Nuclear phenomena in 448
cephalopods 830	
— Tzwetaew's fossil cephalopods 831	VAMPYRELLA
Solenomya, locomotion of 525	VAMPYRELLA
Solpugids, Poisonous nature of . 673	— in circulation of rabbit 630
Sonorian zones	—— in human crania 737
Sonorian zones 284	- in Necturus
Species and subspecies 523	— palæmonetes 621
Specific gravity of animals os	— in Pecten
Specific gravity of animals 95 Sporozoa 899 Sporulation in Amœba	— palæmonetes
Sporulation in Amœha	- in statoblasts of Pectinella
oportunation in removal	Juniobinata di Lecimenta 939

PAGE	PAGE
Venation in Tremerotropis 471 Vertebræ of reptiles 1 Vertebrates, Anatomy of 58	of fresh-water animals in relation to habits and composition 95 Wilson, H. V. A species of Pelo-
— Blind	myxa
roka Range 156	YELLOWSTONE Park, Geology of . 110 Yerkes, R. M. Cossman's tele-
Walton, L. B. Basal segments of hexapod leg	ology 822 — Dearborn's psychology of the
Ward, H. B. Excretion in Mollusca	crayfish 821 — Heleotropism of cypridopsis . 603
— Garman's deep-sea fishes 910 — Note on cestode nomencla-	— Wagner's innate ideas 822 Young, R. T. Mammals of Prince
ture 533 Reproduction of Amœba 441	Edward Island 483 Young, R. T., and Cole, L. J.
— Theirreich Sporozoa 899 Wasp, Habits of 817	Nesting habits of brook lamprey 617
Wheeler, W. M. A singular arachnid in Texas 837	ZAITHA, Genital organs of 119 Zapus 199
— New myrmicophile 851 — Texan ecitons	Zoölogical notes, 72, 156, 238, 322, 443, 527, 604, 676, 766, 827, 903, 986
Williams, S. R. Specific gravity	Zoölogy of the Horn Expedition . 25